TECHNICAL DATA SHEET

PROTAL™ 7200 CARTRIDGE (1000 ml)

Fast Cure, High Build Spray Applied Pipeline Coating

Description

Protal 7200 Cartridge (1000 ml) is a VOC free, 100% solids, 2 part epoxy coating specially formulated to compliment FBE coated pipe. It is a high build liquid coating that is spray applied in one coat in the field or shop. It cures very fast to allow quick handling and backfill times.

Uses

On-site protection of girth welds, tie-ins, welds for boring applications, repairs to FBE, push-rack applications, station piping, fittings and fabrication. Also used for main line pipe coating, sacrificial coating for directional drill and road bore pipe, and rehabilitation of existing pipelines.

Features

- Excellent adhesion (compliments FBE coated pipe)
- Fast cure
- High build (up to 70 mils / 1778 microns in one coat)
- High abrasion resistance for drilling applications
- Can be used as an abrasion resistant coating (ARO)
- Does not shield cathodic protection
- Meets AWWA C-210 Standard
- Outstanding self-leveling characteristics
- CSA Z245.30 compliant

Application

Spray: Prepare surfaces by abrasive blasting to a clean near white finish, SSPC-SP 10/ NACE No. 2. Heat and check temperature of Part "A" Protal Repair Cartiridge to approximately 120°F to 135°F (49°C to 54°C) in a microwave. Convection oven, weld box or other methods (do not overheat and check with a infrared gun). Utilize the Protal Air Cartridge Gun to spray product. A wet on wet spray technique should be used to achieve a minimum thickness of 20 mils (508 microns). The coating thickness should be measured using a wet film thickness gauge.

All application personnel shall be trained by a Denso certified trainer prior to application of Protal 7200.

For complete application instructions please refer to Protal 7200 Air Cartridge Gun Application Specifications.

Denso®

Storage

Minimum 24 months when stored in original containers @ 40°F (4°C) to 105°F (41°C). On job site where temperatures are below 50°F (10°C) product should be kept warm to mix properly (65°F to 85°F optimal).

Cleaning

Clean equipment with Xylene, MEK, Acetone or equivalent solvent cleaner.

HSE

Apply under well ventilated conditions. Wear suitable protective clothing and glasses.
See material safety data sheets.

Packaging

1000 ml dual cartridges. (9 per carton).

Dispensing guns and static mixing tips (1000 ml) sold seperately.

Tech Data

Properties	Imperial	*Metric*
Solids Content	100%	*100%*
Mixed Material - (Mixed) @ 77°F (25°C)		
Specific Gravity	1.63	*1.63*
Viscosity	170,000 cps	*170,000 cps*
Color	Green	*Green*
Mixing Ratio (A/B) by Volume	3 Parts Base: 1 Part Hardener	*3 Parts Base: 1 Part Hardener*
Cure Times		
Pot Life @ 77°F (25°C)	14 - 17 Minutes	*14 - 17 Minutes*
Pot Life @ 97°F (36°C)	7 - 8 Minutes	*7 - 8 Minutes*
Handling Time @ 77°F (25°C)	2.5 - 3 Hours	*2.5 - 3 Hours*
Handling Time @ 117°F (47°C)	1 Hour	*1 Hour*
Handling Time @ 157°F (69°C)	20 Minutes	*20 Minutes*
Recoat Window		
@ 57°F (14°C)	5 Hours	*5 Hours*
@ 77°F (25°C)	2 Hours	*2 Hours*
@ 97°F (36°C)	1 Hour	*1 Hour*
Theoretical Coverage	14 ft^2/30 mils/liter	*1.301 m^2/762 microns/L*
Thickness - Weld Joints / FBE Repairs		
Minimum/Maximum	20/70 mils	*508/1778 microns*
Recommended	25 - 30 mils	*635 - 762 microns*
Thickness - Bore Pipe		
Minimum/Maximum	40/70 mils	*1016/1778 microns*
Recommended	45 - 60 mils	*1143 - 1524 microns*

Denso®

(con't →)

TECHNICAL DATA SHEET

Tech Data

Properties	Imperial	*Metric*
Cathodic Disbondment Test (ASTM G95)		
28 Days @ 77°F (25°C)	3 mm	*3 mm*
28 Days @ 150°F (65°C)	4 mm	*4 mm*
28 Days @ 185°F (85°C)	6 mm	*6 mm*
28 Days @ 203°F (95°C)	6 mm	*6 mm*
Hardness (ASTM D-2240)	Shore D 80+	*Shore D 80+*
Impact Resistance (ASTM G14) @ 32°F (0°C)	70.6 in-lbs.	*70.6 in-lbs.*
Tabor Abrasion (ASTM 4060)		
-1000 cycles, CS-17 wheels, 1000 g. load	1,270 cycles per mil (93 mg)	*1,270 cycles per mil (93 mg)*
Gouge Resistance (Partech Test - 40 kg load)	15.4 mils	*391 microns*
Dielectic Strength (ASTM D-149)	450 V/mil	*17,716 V/mm*
Adhesion to Steel (ASTM D-4541)	3,956 psi	*27.3 MPa*
Adhesion to FBE (ASTM D-4541)	2,579 psi	*17.8 MPa*
Service Temperature	-40°F to 203°F	*-40°C to 95°C*
Application Temperature	-30°F to 212°F	*-34°C to 100°C*

Note: If temperature falls below 50°F (10°C), surface must be preheated and maintained through out the cure process.

Denso®

A Member of Winn & Coales International

DENSO, INC.

LIBERTY SALES & DISTRIBUTION

PHONE: (877) 373-0118
FAX: (888) 850-3787
EMAIL: sales@libertysales.net
WEB: www.libertysales.net

The information given on this sheet is intended as a general guide only and should not be used for specification purposes. We believe the information to be accurate and reliable but do not guarantee it. We assume no responsibility for the use of this information. Users must, by their own tests, determine the suitability of the products and information supplied by us for their own particular purposes. No patent liability can be assumed.